*samples crushed to pass 100 mesh screen (150 micron) - no lower size limit, powders leached with 10x as much 90°C distilled water,

ACIdoc

Document 81, Dennis Donnelly, Pocatello, ID Page 1 of 2

HIW & FD EIS PROJECT -AR PF Control # 2-8(

Dennis Donnelly 56 Tulane Ave. Pocatello ID 83201

March 12, 2000

Thomas L. Wichmann, Document Manager U.S. Department of Energy, Idaho Operations Office 850 Energy Drive, MS 1108 Idaho Falls, Idaho 83401-1563

Attention: Public Comment: Idaho HLW & FD EIS



Mr. Wichmann,

Please accept this as my formal written commentary on DOE/EIS-0287D, the Idaho High-Level Waste and Facilities Disposition Draft Environmental Impact Statement dated December 1999.

A fully acceptable solution to the problem of what to do with radioactive waste has never been implemented or even discussed. I will here present my thoughts on the subject.

A. Repository Location

Because waste radioactive materials must be isolated from the biosphere and because water transport is the principal mechanism for migration (after carefully excluding tectonic activity), a truly dry location with no access to a water table must be chosen. XI (7)

The current U.S. repository sites fail to meet the dual site-selection criteria: no tectonic activity and no water. In fact, no U.S. locations at all meet both these criteria. Have you seriously considered locations outside the United States? I would like to point out that according to the global seismic hazard map on the web at http://seismo.ethz.ch/GSHAP/ there are large regions in Africa that appear to be low seismic risk and presumably quite dry. In fact a line all the way across that continent at 20 degrees north latitude appears free of seismic hazard. I suggest serious negotiations (and serious resources) be engaged in this region for repository selection, characterization, and implementation.

I feel the Yucca Mountain site is totally unacceptable as a high-level waste repository due to the tectonic hazard there. The close proximity, geologically, to the phreatic eruption site at Ubehebe Crater in Death valley shows what I mean. This class of volcano has the potential to blow hundreds of cubic miles of earth into the sky, as it did just up the road, at the Crowley Lake / Mammoth Lakes area on the east side of the Sierra Nevada.

New Information

Document 81, Dennis Donnelly, Pocatello, ID Page 2 of 2

B. Waste Form

The physical/chemical structure of radioactive waste to be disposed of must meet demanding criteria of long-term stability and non-dispersability to ensure its safety in transport and disposal 111.D.2.c.(4)site. DOE has considered glass and concrete forms, but glass is not as stable as it needs to be: in a radiation environment, glass becomes friable and tends to break down into dispersable fine powder. So does concrete, even without radiation.

Have you considered crystalline silicon? Silicon is abundant in the earth's crust, and when high purity is not required, need not be too expensive. When molten, silicon is practically a universal solvent, meaning it could dissolve every piece of radioactive material you have. When it III.D. +(2) solidifies, even with dissolved impurities, it forms a stable permanent material. Large amounts of dissolved impurities would tend to be concentrated at the boundaries between the microcrystals upon cooling to a solid, and thus be subject to leaching over time, but this can be prevented by site selection which excludes water. Waste bearing silicon ingots should be mechanically stable over geologic time periods, period. Silicon crystal conducts heat very well.

> Furthermore, the silicon approach is one which should remove the need to characterize all the different types of radioactive waste into separate classifications and treat them separately. All the waste should just go into the silicon ingots and thence to a safe repository.

I seriously ask that you leave NO radioactive wastes in Idaho or elsewhere in America, we just 11.A(2) have no place for it that is long-term safe. So I request that you dig up, process into silicon ingots, and remove all the radioactive materials at the Idaho NRTS/INEL/INEEL site.

I request that you create a fully contained, mobile furnace that could safely create stable ingots III.D.2.C6) from the radioactive waste here, and then move this furnace to the other sites and repeat the same process there. A containment structure to fully contain, filter and reprocess the offgases should be the only nonmovable structure involved. The EBRII dome could do this job.

Dennis Donnelle,

Dennis Donnelly

CC: Blaine Edmo, Fort Hall Tribal Council Anne Minard, Idaho State Journal

Document 82, U.S. Department of the Interior (Preston A. Sleeger), Portland, OR, Page 1 of 3

HLW & FD EIS PROJECT - (AR) PF Cantral # DC-82



United States Department of the Interior

OFFICE OF THE SECRETARY Office of Environmental Policy and Compliance 500 NE Multnomah Street, Suite 356 Portland, Oregon 97232-2036



April 14, 2000

ER 00/0062

Mr. T.L. Wichmann U.S. Department of Energy Idaho Operations Office ATTN: Idaho HLW & FD EIS 850 Energy Drive, MS 1108 Idaho Falls, Id. 83401-1563

Dear Mr. Wichmann:

On March 14, 2000 the Department of the Interior (Department) sent you a letter, regarding the Draft Environmental Impact Statement for the Idaho High-Level Waste and Facilities Disposition, Idaho National Engineering and Environmental Laboratory (INEEL), Butte, Jefferson, Bingham and Bonneville Counties, Idaho, in which we stated that we did not have any comments to offer. Since that letter was sent the Department of Energy (DOE) extended the comment period and the Department is now providing the following comments for your use in preparing the Final Environmental Impact Statement. The March 14, 2000 no comment letter should be disregarded.

The Department has the following concerns regarding the air quality impact assessment for Yellowstone and Grand Teton National Parks (NP), and Craters of the Moon National Monument (NM), areas protected as Class I under the Clean Air Act:

1) DOE should use the EPA CALPUFF modeling system at least in the "screening mode" to address impacts to Class I increments and the NAAQS at Yellowstone and Grand VIII.B (2)

2) DOE should use the CALPUFF modeling system to address total deposition of sulfur and nitrogen to the three Class I areas. VIII.B(2)

3) DOE should address far field visible haze impacts at the three Class I areas. 82.3 VIII.B(2)

4) All dispersion modeling for NPS areas as well as all other areas should use the on-site surface meteorological data with concurrent NWS upper air data. 82-4 VIII.B(2)

New Information

Appendix

D

Document 82, U.S. Department of the Interior (Preston A. Sleeger), Portland, OR, Page 2 of 3

The proposed Idaho National Engineering and Environmental Laboratory (INEEL) Idaho Highlevel Waste & Facilities Disposition would be located 23 miles (37 kilometers (km)) east of Craters of the Moon National Monument (NM), 93 miles (150 km) southwest of Yellowstone National Park (NP) and 95 miles (153 km) west southwest of Grand Teton NP, all are Federal mandatory Class I areas administered by the National Park Service (NPS). The DEIS examines impacts from the proposed nine alternatives only to Craters of the Moon NM, but not Yellowstone or Grand Teton National Parks. Because several of the proposed alternatives exceed the significant emission rate of pollutants regulated under the Clean Air Act, the VIII.B(2) Department recommends that the impacts from the criteria pollutants to these two parks also be addressed in the DEIS.

> DEIS should address the impacts of three pollutants on Yellowstone and Grand Teton National Parks, specifically addressing impacts from the proposed alternatives whose emissions would exceed:

- Greater than 40 tons per year (TPY) of sulfur dioxide (SO₂)
- Greater than 40 TPY of nitrogen oxides (NO_x)
- Greater than 15 TPY of particulate matter (PM10)

The impact analysis should include a state whether the alternatives would be in compliance with the National Ambient Air Quality Standards (NAAQS) and Class I PSD increments for each of VIII. B(2) the alternatives that will emit pollutants. The INEEL impact analysis should follow the guidance found in the EPA document Interagency Workgroup on Air Quality Modeling (IWAQM) Phase 2 Summary Report and Recommendations for Modeling Long Range Transport and Impacts 82-7 (EPA-454/R-98-019, December 1998). This EPA guidance recommends that the EPA VIII. B(2) CALPUFF model be used either in the screening mode or in the refined mode when modeling long-range transport beyond 50 km. The EPA no longer recommends the model used in the

DEIS, Industrial Source Complex Short Term (ISCST3) model, to analyze air quality impact analyses at distances beyond 50 km.

The DEIS should also examine the impacts at the Class I areas to air quality related values (AQRVs) such as visibility and acid deposition to lakes, from the proposed alternatives with significant emissions. The DEIS does contain a coherent near field visibility analysis using the VIII. 8(z) EPA VISCREEN model for Craters of the Moon NM. This analysis indicates that there will not be a coherent plane in most form and the second of the Moon NM. be a coherent plume impact from any of the alternatives at Craters of the Moon NM. The Department requests sources locating greater than 50 km from its Class I areas conduct a farfield visible-haze analysis instead of a plume analysis. A far-field visible-haze analysis needs to be performed for the impacts from the alternatives to both Yellowstone and Grand Teton NPs. The far-field haze-visibility analysis should follow the procedures described in the IWAQM Phase 2 report. Since the distance from the INTEC area of INEEL is greater than 50 km from the western portion of Craters of the Moon NM, a far-field visibility analysis also needs to be performed for the monumen. The NPS will provide DOE with the background extinction values for the three Class I areas to be used in the far-field visibility analysis.

The Department also requests that the DEIS analyze the impacts of acid deposition to lakes at Grand Teton NP from the different alternatives with significant emission rates of criteria VIII.B(2)

Document 82, U.S. Department of the Interior (Preston A. Sleeger), Portland, OR, Page 3 of 3

pollutants. The generalized descriptions found in Chapter 5 of the DEIS are inadequate for the Department to make an informed decision regarding acid deposition impacts. The Department requests that the deposition analysis contain the impacts of total nitrogen (N) and total sulfur (S) from the various alternatives. The INEEL analysis should follow recommendations found in the EPA IWAQM Phase 2 report. Background information to assist DOE in addressing deposition impacts to Grand Teton NP can be found in the NPS document, Assessment of Air Quality and Air Pollutants Impacts in National Parks of the Rocky Mountains and Northern Great Plains, August 1998, NPS D-657.

The Department recommends changing the source for the meteorological data used in all of the DEIS's modeling analyses for both near- and far-field. As described in Appendix C.2 of the VIII. B(2) DEIS, the air quality analyses applied two years of on-site surface meteorological data and climatic averaged upper air data to calculate the impacts from the nine different alternatives of the proposed project. The Department believes that using "climatic averaged" mixing heights is not appropriate for a project of national importance, especially considering the inexpensive cost of computing resources today. The Department recommends that DOE should purchase, for a few hundred dollars, concurrent National Weather Service (NWS) upper air data which is available through the National Climatic Data Center in Asheville, North Carolina. We believe that the concurrent Salt Lake City mixing height data would be most representative, but defer this opinion to the recommendations of the State of Idaho and the U.S. EPA.

We thank you for the opportunity to comment on this DEIS. The NPS Air Resources Division (ARD) is available to provide technical assistance to DOE for any of the Class I issues. For further information, or to set up a meeting, please contact John Notar of the NPS ARD at (303)

Preston A. Sleeger Regional Environmental Officer

> ldaho MLW & FD EIS

Appendix

D

D-206

Document 83, Coalition 21 (Richard A. Kenney), Idaho Falls, ID Page 1 of 5

Coalition 21

Coalition 21

Phone: 208-528-2161 email: facts@srv ne

April 11, 2000

EIS PROJECT - AR/PF
Control # DC - 83

U.S. Department of Energy 850 Energy Drive Idaho Falls, Id. 83401

Attention: John Medema **HLW DEIS Comments**

Dear Mr. Medema,

GENERAL COMMENTS

COALITION 21 has reviewed the Department of Energy's (DOE) "Idaho High Level Waste (HLW) and Facilities Disposition" Draft EIS document. The Coalition thanks DOE for extending the deadline for comments to allow time for more adequate review before submitting our comments. This proposal is undoubtedly the most complex project for the public to review, as well as being challenging for the INEEL technical personnel to produce.

Coalition 21 is a major group of public minded citizens from across the State of Idaho. IT includes many Idaho citizens who have technical knowledge and expertise in science and engineering. We have reviewed the DEIS, and its supplementary cost documents. The Coalition has also reviewed the recent National Research Council's "Alternative High Level Waste Treatment" document as well as a number of other papers and documents relative to this

While The Coalition commends the DOE for the effort that went into the preparation of the document, we have a number of concerns and hopefully constructive criticisms about the resulting DEIS. We feel that a number of potentially viable alternatives have not been III.D. +(6) considered, nor were there explanations for their exclusion. Thus, many of our comments are expressed as questions that need considered, fact based, and responsive answers from DOE

An additional general concern of the Coalition is that recent actions by some members of the public, both instate as well as out of the State of relative to INEEL cleanup of wastes VIII.G(1) demonstrates the need for the DOE to go even further in assuring the safety, viability, and practicality of any proposed process or option.

SPECIFIC COMMENTS RE: "IDAHO HIGH-LEVEL WASTE: DOE/EIS-0287D"

1. Why does the DOE believe that a treatment cost of ~\$.85 - 4 million dollars/cu. m. provides a $\chi(14)$ realistic cost-effective solution to the handling of high-level wastes? An EIS is not required to consider costs. However, DOE needs to provide the public, as well as their congressional

represent- atives, a realistic cost-inclusive evaluation of the proposed alternatives to justify possible funding. Fig. S-1 of the DEIS supplementary "Cost Analysis" document DOE/ID 10712, shows a range of \$3 - 6.5 billion for just treatment and storage of the 11 different processing alternatives discussed. These costs along with additional minor transportation and major (though questionable) disposal costs, results in total costs of ~\$850,000/cu.m. All alternatives, except the "No-action" alternative and the "Continued Current Operation" would require peak accrual funding of approximately 2-8 times the current funding levels. It is totally unrealistic to think that either the Congress or the public would accept a funding level this high.

We strongly suggest that DOE develop some "fiscal common sense" in support of its proposals. This is the subject of a paper to be published in the spring 2000 issue of Nuclear Technology. This very worthwhile paper is entitled "Alternatives to High Level Waste Vitrification; the Need for Common Sense." The author is Jimmy Bell. DR. BELL estimates remediation costs for vitrification of site-wide DOE defense wastes will run from \$2-4 Million/cu. m. or costs of \$75 Billion for the INEEL, Savannah River & Hanford wastes. Will the public tolerate this huge and largely unnecessary expense? He (and we) think not. Compare these ridiculous figures: a US annual budget of say \$2 trillion, against what would have to be an annual DOE request of \$807 million for INEEL. The current annual INEEL cleanup budget is ~ \$51 million.

2. How does DOE reconcile this DEIS with the implementation of the 1995 Idaho Settlement 83-5 Agreement? This agreement between the Federal Government and the State of Idaho calls for VII.D(G) calcining all of INEEL's reprocessing wastes by 2012. Four alternatives of the proposed in the DEIS do not use calcining. Also, four options (exclusive of the "No-Action" and "Continued Current Operation options) allow the on-site storage of wastes. Two of these are for grouting waste in storage tanks. These would have to be permanent storage at the INEEL options which are not permitted by the Agreement.

It is our understanding that this DEIS was supposed to be a cooperative report by the DOE and The State. Has secured the State Of Idaho's concurrence in or approval of these proposed VII. D(2) options/alternatives? If not, it appears that legally-binding changes would be required to the original Settlement Agreement. If no changes to the Agreement are contemplated, what are DOE's alternative plans for resolving these issues? Decision makers and the public need and demand to know DOE'S plans for dealing with such issues.

3. Why has DOE created some artificial and unnecessary barriers to full consideration of options for dealing with HLW? These barriers unnecessarily closed out some alternatives/ options and/or abnormally raised costs of some other options. The DOE should describe the rationale for not evaluating the environmental consequences and costs for a number of cases including the options described in: non DOE scientific and engineering journals; conference proceedings; the recent National Research Council (NRC) report on the INEEL's HLW program; the NRC reviewer's suggestion that DOE-ID accept STUDVIK's bid to replace the NWCF with a brand new MACT-compatible calcination system; and, NRC's suggestion that disposal is an incremental cost and should not dominate decision making. STUDVIK's bid had all the emission controls to meet the new EPA clean air requirements ... at a total cost less than half the estimated cost to modify the existing calciener.

83-2 IX.C(1)

03-3

Document 83, Coalition 21 (Richard A. Kenney), Idaho Falls, ID Page 3 of 5

One additional artificial barrier for making rational assessments of HLW is focusing on worst-case bounding scenarios without also including best engineering estimates of radiological doses to the public. Such a negative focus gives a distorted and unrealistic perception to the public: one that impairs the public's ability to make intelligent, facts-based evaluations of the issues and their attendant risks.

4. Why are the of the INEEL's site-wide defense high level wastes (& low level for that matter) not being sent to the Nevada Test Site (NTS)? Defense wastes are entirely different materials from (the so-called) 'spent' nuclear fuel (SNF) and they should be kept separate from them. NTS is the best repository for defense wastes because:

a. It is already "federal land"

radioactive elements that need a final repository.

- b. It has already been contaminated from nuclear weapon tests.
- c. It has already been the subject of over 30 years of relevant hydrogeological research.
- d. Tests have already been performed there, demonstrating disposal of nuclear wastes.
- e. DOD could not object to disposal of defense wastes at the NTS as they did earlier to SNF.

 Irradiated commercial SNF is a future potential energy source, since only about 3% of the original fuel's available energy has been utilized. The Integral Fast Reactor (IFR) technology and its associated electrometalurgical technology has been proven effective. It is capable of utilizing most of the available remaining energy in SNF without a proliferation risk. This cutting edge technology also dramatically reduces the amount of final wastes with long-lived

5. Why didn't DOE give more consideration to the early NAS study which concluded that some sort of cementation process to solidify wastes would probably prove to be more practical (and affordable) than vitrification? In 1980, A panel of eminent scientists evaluated ICPF's HLW operations. The panel ranked ORNL's new FUET'AP cementation process higher in merit than vitrification. The existing US defense reprocessing wastes are hundreds of times less radioactive and a much higher volume than the HLW produced in modern French/British reprocessing plants. Therefore, the choice of these nations to vitrification of the small amounts of their highly radioactive (thus real HLW) is not a directly valid reason for vitrification of US defense wastes. To the contrary, Britain has recently converted virtually all (>20,000 cu.m) of its 'historic' reprocessing wastes into road-ready/shipment form by cementitious technology. This British disposal program handled everything up to 500 W/cu.m total radioactivity, contrasted to INTEC calcine's ~40 W/cu.m. This proved that cementitious disposal of HLW can and should be done.

6. [Why did DOE reject the option of sugar calcination? Fluidized bed sugar-calcination of SBW was successfully tested on a pilot-plant scale at INEEL 35 years ago. and tested again on a smaller scale only four years ago. The technology was "rediscovered" at Hanford in 1995. and BNFL now routinely implements this beneficial use of sugar with rotary calciners in England. Using sugar in calcining supports reducing the nitrates to elemental nitrogen, rather than to toxic (and visible) NOX. Sugar/calcining also reduces the amount of additional "cold" aluminum nitrate nonahydrate ANN with the ANN'S attendant added cost and doubling the quantity

Document 83, Coalition 21 (Richard A. Kenney), Idaho Falls, ID Page 4 of 5

of calcine produced. Such facts should be compelling arguments for using sugar. The higher temperature proposed for the extra ANN method also could conceivably raises public concerns concerning stack emissions. This consideration again raises the STUDVIK question (item 3).

83-14
III.F.1(3)
7. How did DOE utilize the two Sandia National Laboratory's performance assessments of Idaho's HLW waste problems? The second of these (assuming a Yucca Mountain-like repository and that NRC 19 CFR 60 & EPA40 CFR-191 HLW regulations would apply) concluded that a competently-sited repository would adequately retain radionuclides. Such a repository would of this regardless of the characteristics of the waste form itself. This suggests that Idaho calcine could be directly disposed of without additional chemical treatment (full & TRU separations options), which would drastically reduce overall costs.

83-15
III.F.2(1)
8. We strongly support the State of Idaho's view that DOE's current method of calculating
Metric Tons of Heavy Metal (MTHM) should be changed (see comment #3). Either of the State's
methods are much more realistic. Using these more realistic calculations would allow DOE's
HLW to be placed within today's proposed repository's "space" allotment.

83-16
W.F.2(2)
9. DOE should freeze the waste acceptance criteria without waiting for proposed design of the repository. This would allow expediting decisions on INEEL waste handling, by eliminating bureaucratic procrastination "OF WE'RE WAITING UNTIL THE DESIGN IS FINALIZED."

Acceptance of the waste criteria would make it unnecessary for DOE to wait for a repository siting decision to begin preparing INEEL waste for road-ready shipments.

83-17

10. Dr. Bell's article suggests that The DOE might want to consider using a Dry-Pack process
111.D-4(5)

(DOE-RFPC5-980R22516) for INBEL HLW wastes, at a much reduced total cost of <\$1.5 Billion.
This compares very favorably cost-wise to the \$5 billion quoted for the "Full Separation"
alternative in the DEIS cost evaluation document - Fig. 12.

83-18
[II. The separations alternatives have higher treatment costs than non-separations alternatives, and are very likely to have processing complications. The higher disposal costs for non-separation alternatives seem due to exorbitant disposal charges, which brings up questions about the charges based on current MTHM. The higher treatment costs for separations alternatives are primarily due to vitrification. The separations process will also generate additional waste volumes and steps. Note that two of the three separation options leave the low level waste at INTEC, not off-site; such proposals violate the Idaho Settlement agreement.

12. Each EIS dealing with nuclear matters should provide information regarding the basic natural radiation background. This should include what RADIOACTIVITY is already VIII.4(**) NATURALLY in the soil, and be identified by isotope and concentration. This would help the average person relate to how a given INEEL operation might affect their natural exposure to radiation.

13. DOE should justify why it has NO preferred alternative at this time, this after having selected "separations" as the preferred alternative in the 1995 INEEL Waste PEIS. We strongly

Idaho HLW & FD EIS

83-21

14. DOE should provide an estimate of the additional unnecessary cost for the multi-color layout of this DEIS, and of the resulting final EIS. How much of this publication cost could be (X,A(Y)) saved by issuing only the Summary in this way, and printing the rest of the document without the color layouts, as in other DEIS/EISs?

15. A final comment is based upon an independent evaluation of scientific and technical issues related to environmental remediation of defense waste sites managed by DOE. An NRC (NAS) 1996 report on governmental research and development operations entitled "Barriers to XI (1) Science" reported a variety of problems. A number of these deficiencies appear to be applicable

- to the DOE, including: 1. Planning is driven by existing organizational structures, rather than establishing special groups to deal with the problems to be solved.
 - 2. Commitments are often made without adequately considering technical feasibility, cost &
 - 3. There is often an innate inability to look at more than one alternative at a time.
 - 4. Priorities are often driven by narrow interpretations of regulations rather than regulation's purpose.
 - 5. Production of documents often seems to be an end in itself, rather than a useful means to achieve an organizational or technical goal.
 - 6. There often is a lack of organizational coordination.
 - 7. There is an exclusionary "not-invented-here" syndrome at individual sites.

In summary, there appears to be some slight measures of improvement in some areas and programs of the DOE. However, much of the problems cited above are ingrained in the DOE culture. The DOE should challenge itself to make substantial progress in eliminating or at least reducing the above-noted problems. This is especially necessary for DOE/ID if INEEL is to truly be recognized as the lead laboratory for environmental remediation. And nuclear research.

LAJ: HLW-DEIS rev.5

Very truly yours

Document 84, Stephen D. Kruse, Jackson, WY Page 1 of 2

EIS PROJECT - AR PF Control # DC-84

Appendix

a

New Information

April 18, 2000

RECEIVED APR 24 2000

FROM Stephen D. Kruse

TO:

1950 South Park Ranch Road

850 Energy Drive, MS 1108

Idaho Falls, Idaho 83401-1563

Jackson Hole, Wyoming 83001-9437

Thomas L. Wichmann, Document Manager

U.S. Department of Energy, Idaho Operations Office

SUBI Idaho HLW & FD EIS

To all the ladies and gentlemen involved in researching and preparing the many documents for the preliminary stages of this Environmental Impact Statement (EIS) process for the Idaho High-level IX.A(2) Waste and Facilities Disposition, I would express the thanks of the public you have served. Certainly, your many publications, news articles and public meetings have promoted public awareness. This public awareness, much more than public involvement, seems to have been your most beneficial task.

From the beginnings of my acquaintance with this Draft EIS, a personal disclaimer of ignorance and lack of fundamental knowledge was most suggestive in this land of technical giants. Hopefully a few of the questions which come through public comments will steer you more precisely toward your goals. Obviously for the general public, most of our time is devoted to slaying dragons in our own workplaces. Knowledge and experience gives us the ability to make and implement sound decisions. Appropriate, effective and inappropriate solutions for INEEL are not readily seen in a one-day tour.

Thus my comments will be more questions for your consideration and a few comments, as you prepare to slay this beast. If any questions and comments from the general public provoke thoughts, investigations, testing and insights toward your goal, then our public involvement will have had a positive result.

Just what are we trying to do?

Can we eliminate the entire problem here (meaning INEEL)?

If we transport a portion of the HLW to Hanford, are we passing the muck (i.e. buck)?

Can we take care of this problem once and for all? (or are we just making neat containers which must be dealt with at some time in the future, whatever the year?)

If you have to deal with this 75 years from now, what would you like to see?

How can we deal with this HLW with the least amount of handling?

Can the sodium-bearing liquid waste (SBW) be broken down, or go through some kind of evaporative process to reduce its total volume, rather than adding virgin materials (e.g. dolomite) thereby creating more total waste?

Once we decide what we are going to do, procedures must be developed and followed. Follow 1X.P(6) procedure !!

daho

MTH

& FD EIS

Document 84, Stephen D. Kruse, Jackson, WY Page 2 of 2

Often the best solution is a combination of solutions. Most of the time just one solution does not take care of everything. Some items go to a Waste Isolation Pilot Plant (WIPP), some to Hanford, most are processed here.

Where is the best place to process HLW?

If transportation is recommended, what is the safest mode of transport?

If transportation is by rail, how many cars maximum should be concentrated on one train?

84-3 Trucking may be best to WIPP, since each load may be transported when ready, rather than storing vill. 4 (5) processed materials waiting on a trainload.

What happens if there is an accident? What kind of contamination is possible? probable?

What are the relative health risks to our workers, the general public, the environment? We need to develop an objective rating scale for each of the above?

R4-5
X(G)

A well-written Cost Analysis of Alternatives has been published, and while cost is not the most significant factor, a solution so expensive that it is not funded is not a solution. Apparently the No Action option is the only option feasible at current funding levels. Reflect that the future cost of taking no action is often incalculable, if the environment is irreparably damaged, irreplaceable.

Here again the questions of "What if ...?" and "How do you ...? and "Why do you ...?" come to mind.

84.6 Then again if the solutions are clear. Develop a plan, establish procedures, fund, and proceed

Whatever we can do now, do now! Implement other plans as they are formulated and approved.

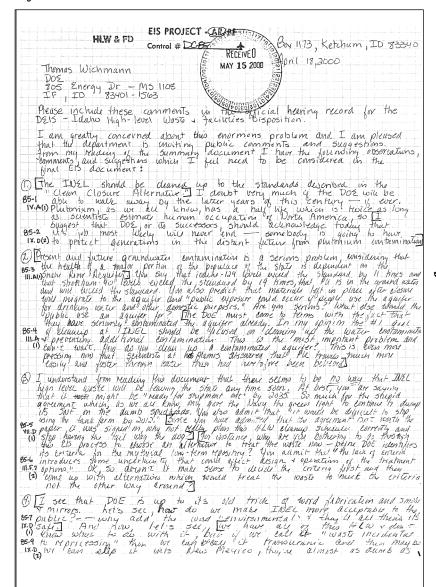
VI(i) Unless HLW will take care of itself over time without unnecessary risk, No Action will not be one of our chosen options.

04-6
11-8(i) Under "What if's...?" we need to be mindful of weather, potential seismic influences, i.e. things not within our control; think, plan, prepare.

For me, I still have much to learn. I wish you well.

HOW

Document 85, Ellen Glaccum, Ketchum, ID Page 1 of 2



Appendix D

Document 85, Ellen Glaccum, Ketchum, ID Page 2 of 2

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Approve of the fact that the general populace down to
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(B) I don't understand why you would stow the blass A type of the Liver in on alternative and remove the unanothers with the Liver to the another of the same acting was a volcant and on top of a truge aguiter all waste stands be only geologically stable and 30 20004
WILE (1) 85-18 III.F.2(2) I urge you to withdraw this abcument until the long term
Turge 1/1 11 F.2(2) If urge 1/1 to twithdraw this document until the long tem storage arraying have even to the history and them from the most sake that to deal with the huge amount of the ar INTO IT also are interested to the disposition of the SNF 21 Fix 3:3 and 5till arriving. Dry wash c it addressed in this DEIS ?
85-19 XI(A) Ellia Blaccum Buy 1173
Ketcham, ID 83340

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